CLAIMS

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- 1. A footwear manufacturing system, comprising:
- a scanner for taking measurements of a foot;
- a means for creating a foot profile based upon said measurements;
- a manufacturing station for receiving said foot profile and creating an insole based upon said foot profile.

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- 2. The footwear manufacturing system of Claim 1, wherein said manufacturing station is comprised of:
 - a mold; and
- a forming unit within said mold, wherein said forming unit creates a positive impression of said foot based upon said foot profile for creating an upper portion of said insole.

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3. The footwear manufacturing system of Claim 2, wherein said forming unit includes a plurality of pins that are adjustable to reflect said positive impression of said foot.

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4. The footwear manufacturing system of Claim 3, wherein said forming unit includes a membrane positioned upon said plurality of pins.

- 5. The footwear manufacturing system of Claim 4, wherein said membrane is comprised of a resilient material.
- 5 6. The footwear manufacturing system of Claim 5, wherein said mold is comprised of a first portion containing said forming unit and a second portion containing a cavity for defining a lower portion of said insole.
 - 7. The footwear manufacturing system of Claim 6, wherein said means for creating a foot profile is comprised of a computer system.
 - 8. The footwear manufacturing system of Claim 7, wherein said computer system transmits said foot profile to said manufacturing station via a global computer network.
 - 9. A method of producing a custom insole for footwear, comprising the steps of:
 - (a) taking measurements a foot;

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- (b) creating a foot profile based upon said measurements;
- (c) transferring said foot profile to a manufacturing station; and
- (d) producing said custom insole from said foot profile.
- 10. The method of producing said custom insole for footwear of Claim 9, wherein said step (d) producing said custom insole is comprised of the following steps:
 - (i) generating a positive impression within a mold based upon said foot profile;

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- (ii) injecting a liquid resin into said mold formed upon said positive impression; and
- (iii) removing said custom insole after said liquid resin has hardened.
- 11. The method of producing said custom insole for footwear of Claim 10, wherein said step (i) generating a positive impression comprises the steps of:
 - (A) manipulating a plurality of pins beneath a membrane within a forming unit of said mold to reflect said positive impression; and
 - (B) resetting said plurality of pins after said step (iii) is completed.
- 12. The method of producing said custom insole for footwear of Claim 11, wherein step (c) transferring said foot profile utilizes a global computer network.